

Winnebago Landfill Northern and Southern Units Winnebago County, Illinois

Permit Number: 1991-138-LF Site Number: 2018080001

Alternate Source Demonstration

May 2012



Submitted to:

Illinois Environmental Protection Agency

Bureau of Land Springfield, Illinois

Prepared for: Winnebago Landfill 8403 Lindenwood Road Rockford, Illinois

Prepared by:



3300 Ginger Creek Drive Springfield, Illinois 62711

Tel: (217) 787-2334; Fax: (217) 787-9495



May 14, 2012

Stephen F. Nightingale
Manager, Permit Section
Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Ave. East
P.O. Box 19276
Springfield, IL 62794-9276

Re:

2018080001 - Winnebago County

Winnebago Landfill - Northern and Southern Units

Alternate Source Demonstration

Dear Mr. Nightingale:

On behalf of Winnebago Landfill, submitted herein are an original and three copies of an alternate source demonstration in accordance with Condition VIII.15 of Permit No. 1991-138-LF, Modification 54. Application forms (LPC-PA1 and Certification of Authenticity) are provided in Appendix A of the application.

Please contact Tom Hilbert at (815) 963-7516 if you have any questions or require additional information.

Sincerely.

Teresa N. Sharp

Environmental Scientist

TNS:bjh:sjb

Enclosure(s)

cc: Tom Hilbert - William Charles Waste Companies

Bernie Shorle – US EPA Region 5

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1. INTRODUCTION

Condition No. VIII.15 of Permit No. 1991-138-LF, Modification No. 54 requires that an alternate source demonstration be conducted for all confirmed monitored increases detected in facility monitoring wells or that an assessment monitoring program be implemented to determine whether the facility is the source of confirmed increases. Exceedences that were observed during the fourth quarter of 2011 were sampled for confirmation during the first quarter 2012 event. This alternate source demonstration will address the fourth quarter 2011 confirmed exceedences for Northern Unit wells G13D (benzene), and G33D and G33S (pH). The application forms (Certification of Authenticity and LPC-PA1) are contained in Appendix A.

2. BACKGROUND INFORMATION

2.1 Site Description

The Winnebago Landfill facility contains three separate disposal areas (Northern and Southern Units, and the North Expansion Unit) authorized under Illinois EPA Permit Nos. 1991-138-LF and 2006-221-LF, respectively. A site map has been provided as Figure 1. The Northern Unit ceased accepting waste on September 8, 2000. The Southern Unit ceased accepting waste on March 31, 2011. In addition, a North Expansion Unit, located between the existing Northern Unit and Baxter Road, began operation under Illinois Permit No. 2006-221-LF on May 16, 2008. This unit is also shown in Figure 1.

2.2 Site Hydrogeological Summary

The site hydrogeologic characteristics have been accurately determined based on implementation of a series of subsurface investigations, beginning with the initial drilling investigation in 1969 by Testing Engineers, Inc. Subsequent investigations have included advancement of borings, well/piezometer installations for the existing site and facility expansion, and comprehensive groundwater quality testing due to releases from Acme Solvents. Additional hydrogeologic information has been obtained due to development activities of the North Expansion Unit, which includes excavation of materials exposing bedrock and unconsolidated deposits.

2.2.1 Unconsolidated Deposits

The composition of the unconsolidated deposits, which appear to be glacial outwash, varies with location throughout the facility boundaries. Coarse-grained sand and gravel with occasional silt and/or clay seams typically underlie the Northern Unit. The thickness of the sand and gravel varies from just a few feet beneath the east toe of the waste footprint to approximately 70 feet beneath the western edge of the waste boundary. The sand and gravel thickens to the west, corresponding with the erosion of the underlying dolomite. Unconsolidated sand and gravel glacial drift sediments directly underlay the western portion of the Northern Unit, while fractured dolomite bedrock underlies the eastern portion of the landfill.

2.2.2 Bedrock

The bedrock consists of dolomite, fractured and weathered to varying extents. Chert layers, chert nodules, and small vugs were commonly noted on boring logs. However, larger voids or karst characteristics were not indicated on the boring logs. The bedrock surface is highly variable throughout the facility. East of the site a dolomite bedrock upland is present and

outcrops in the vicinity of the Acme Solvent site and two quarries. This bedrock upland represents the eastern bedrock escarpment of the Upper Rock buried valley. The site is situated on the eastern edge of the Upper Rock buried bedrock valley. The overburden thickens as the elevation of the bedrock surface decreases to the west. As determined by previous boring investigations, and monitor well and gas probe installations, the bedrock varies from a high near 750 feet above mean sea level (MSL) at the southeast corner of the Northern Unit to a low of approximately 675 feet above MSL to the west and south of the Southern Unit.

2.2.3 Uppermost Aquifer

The uppermost aquifer for the site is located within the glaciofluvial sand and gravel deposits and the upper portion of the fractured dolomite bedrock. The saturated sands and gravels, which directly overlie the bedrock, occur in the western two-thirds of the Northern Unit. In locations where there are no saturated glaciofluvial deposits, the uppermost aquifer is located within the dolomite bedrock typically overlain by silty clay deposits. This occurs in the eastern third of the Northern Unit.

2.2.4 Groundwater Movement

The general direction of movement within the uppermost aquifer is westward in the bedrock upland east of the site. Groundwater movement in the unconsolidated sediments is to the west-northwest. Potentiometric surface maps provided in Appendix B indicate groundwater movement is generally west-northwest beneath the Northern Unit. Groundwater elevations obtained from recent monitor wells and piezometers installed west of Kilbuck Creek indicate movement is to the northwest of Kilbuck Creek. Shallow groundwater may discharge to Kilbuck Creek while groundwater in the lower part of the unconsolidated sediments and deeper bedrock moves beneath Kilbuck Creek.

Kilbuck creek is both a gaining and losing stream dependent upon hydrogeologic and atmospheric conditions. During drier periods where the water table drops below the bottom of the creek bed, surface waters feed the groundwater system. During wetter periods where the water table is high (above the bottom of the creek bed) the groundwater system will recharge the stream and wetlands. This fluctuation allows mixing of surface water (and, therefore, surface water constituents) with groundwater (and any groundwater constituents) often on a seasonal basis. In addition, dependent upon the creek stage, the surface waters of both the creek and the wetland mitigation area may be contiguous.

The aquifer system beneath the facility, which includes both the saturated sand and gravel and the upper weathered/fractured part of the dolomite, extends to an approximate depth of 665 feet MSL. East of the landfill and beneath the eastern quarter of the Northern Unit, the water table occurs within the dolomite bedrock. Beneath the western three-fourths of the site and within the Kilbuck Creek Valley, the water table occurs within the sand and gravel deposits. Previous hydrogeologic investigations and evaluations have shown that vertical gradients do exist within the uppermost aquifer but are typically slight at any individual location. Therefore, groundwater elevations from the bedrock wells and wells screened in the unconsolidated materials (sand and gravel) were used to create one potentiometric surface for each quarterly sampling period. As expected, the hydraulic gradients are greater at the east end of the facility where the bedrock is higher, and flat near Kilbuck Creek.

3. CURRENT GROUNDWATER MONITORING PROGRAM

3.1 Existing Monitor Well Network

The facility has an extensive network of monitoring wells from which groundwater data are obtained. Separate monitor well networks exist for the Northern and Southern Units. The Northern Unit contains 21 groundwater monitoring points, of which five are designated as background groundwater quality wells (upgradient), one is a compliance boundary well at the edge of the zone of attenuation and the remaining wells monitor within the zone of attenuation down- and sidegradient of the landfill. Winnebago Landfill samples 14 additional wells on a quarterly basis as part of the Groundwater Management Zone (GMZ) monitoring network. Each well is identified in Figure 1. The following table provides a list of the monitoring wells for the Northern Unit.

Northern Unit Detection Mon	itoring Wells (21)
Upgradient	G09D, G09M, G13S, G13D, G20D
Compliance Boundary	R39S
Zone of Attenuation	G03M, G16M, G17S, G33D, G34D, G35D, G36S
	G37S, G38S, G40S, G41D, G41M, G41S, R42S, G51S
Northern Unit GMZ Only Wel	ls (14)
Compliance Boundary	G52S, G52M, G53S, G53M, G54S, G54M
Zone of Attenuation	R03S, G16D, G33S, G34S, G35S, G37D, G130, G50S

The Southern Unit contains 17 permitted groundwater monitoring points. Six are designated as background groundwater quality wells (upgradient); two (G13S and G13D) are also background wells for the Northern Unit. Although, monitoring wells R05S, G29S, and G29D are permitted as zone of attenuation wells, based on the potentiometric surface maps (Appendix B), these wells are also located upgradient to the waste units. The wells have been used previously in the derivation of the background/applicable groundwater quality standards (AGQS) values for the unit. The following table lists the monitoring wells for the Southern Unit.

Southern Unit Detection Monitoring	Wells (17)
Upgradient	R11S, G11D, G13S, G13D, R22S, G22D
Zone of Attenuation	R05S, G23D, R24D, R25D, R27D, A28D, R29S, G29D, G26S, G26D, G49D

3.2 Background Concentrations

The initial background concentrations (AGQSs) for the Northern Unit were determined from data obtained from four wells located east of Lindenwood Road on the Acme Solvent property (B-8, STI-2S, STI-2I, and STI-2D). Background sampling occurred from 1990 through 1992. The AGQSs were proposed in the initial significant modification application and subsequent addenda. Addendum 3 to the initial significant modification, dated February 10, 1993, provided the first full listing of routine AGQS values derived from wells G09M, G09D, G13S, and G13D. Since the time the background concentrations were obtained, remediation at the Acme Solvent facility ceased and an additional quarry began operation north/east of Acme Solvents (the facilities are located upgradient to the landfill). The approximate location of Acme Solvents and

the quarries are shown in Figure 2. These activities have likely affected the current background conditions. To account for changes in the background groundwater quality since 1993, revised AGQS values for 60 G1 and G2 List parameters were submitted and subsequently approved on March 26, 2004 with the issuance of Modification 24 to the current permit.

The initial AGQSs for the Southern Unit were determined from data obtained from the permitted upgradient/background wells. However, revisions to several background values have included data from wells R05S, G29S, and G29D as part of the statistical derivation. Although permitted as zone of attenuation wells, these wells are actually hydraulically upgradient to the Southern Unit and provide additional information on the background groundwater quality. As mentioned in Section 3.1 above, monitoring wells G13S and G13D are contained in the monitoring well networks for both the Northern and Southern Units. The groundwater quality for these two wells along with R05S (Southern Unit) are not evaluated with respect to the permitted AGQSs but are reviewed based on trend analyses in accordance with Condition VIII.25 of Permit No. 1991-138-LF (Modification No. 54).

4. GROUNDWATER QUALITY

In accordance with 35 Illinois Administrative Code (III. Adm. Code) 811.319 and the current permit, the groundwater quality is evaluated on a quarterly basis. Results of the statistical evaluations are reported quarterly in accordance with Condition No. VIII.18. Notification of observed/confirmed increases has been submitted in accordance with Condition No. VIII.14 of the permit. As stated in the introduction, this alternate source demonstration will address the fourth quarter 2011 confirmed exceedences for Northern Unit wells G13D (benzene), and G33D and G33S (pH). The historical analytical data for the subject exceedences is provided in Table 1.

4.1 Benzene

The fourth quarter 2011 concentration (3.7 ug/l) of benzene exceeded the preceding second quarter 2011 concentration (1.7 ug/l) at upgradient well G13D, and was confirmed first quarter 2012 (2.7 ug/l). The fourth quarter 2011 concentration also exceeded the AGQS/MAPC value (2.8 ug/L). The first quarter 2011 concentration did not confirm the exceedence of the AGQS/MAPC value. The concentration of benzene at G13D decreased to 2.2 ug/L during second quarter 2012, remaining below the AGQS/MAPC value. Since well G13D is located upgradient of the landfill and concentrations are below the AGQS/MAPC value, no further action is necessary for this parameter.

4.2 pH

Concentrations of pH minimally exceeded the AGQS/MAPC upper limit (8.1 su) at wells G33D (8.48 su) and G33S (8.16 su) during fourth quarter 2011, and were confirmed first quarter 2012 (8.16 and 9 su, respectively). Concentrations of pH at G33D (6.94 su) and G33S (7.01 su) returned below the upper AGQS/MAPC limit during second quarter 2012.

A facility influenced change in pH should be accompanied by increases in additional constituents. There are no other confirmed increases at either well, indicating that the minimal increase in pH observed at wells G33D and G33S is not related to the facility. Since current concentrations are within the permitted range (5.4 - 8.1 su), no further action is necessary for this parameter.

5. RECOMMENDATIONS AND CONCLUSIONS

Based on an evaluation of the historic sampling results, the confirmed fourth quarter 2011 increases of benzene at upgradient well G13D, and pH at wells G33D and G33S are not associated with the landfill. Concentrations of benzene at G13D appear to be related to upgradient conditions. The minimal increase of pH observed for wells G33D and G33S appears to be a result of natural fluctuation in the groundwater. Since current concentrations of the subject parameters are below the permitted AGQS/MAPC values, no further action is necessary. This alternate source demonstration fulfills the requirements of Condition No. VIII.15 of Permit No. 1991-138-LF Modification No 54.

TABLES

Table 1 Winnebago Landfill Historical Analytical

Well ID	Parameter	Units	GW List	AGQS	1stQtr97	2ndQtr97	3rdQtr97	4thQtr97	1stQtr98	2ndQtr98	3rdQtr98	4thQtr98	1stQtr99	2ndQtr99	3rdQtr99	4thQtr99
G13D	Benzene	ug/l	G2	2.8		< 2				< 2			MALE IN	< 1		
G33D	pH (field)	units	G1	5.4 - 8.1	7.21	7.04	7.31	7.31	7.16	7.71	7.37	7.28	7.21	8.3	7.53	7.84
G33S	pH (field)	units	G1	5.4 - 8.1											May May 1	

Well ID	Parameter	Units	GW List	AGQS	1stQtr00	2ndQtr00	3rdQtr00	4thQtr00	1stQtr01	2ndQtr01	3rdQtr01	4thQtr01	1stQtr02	2ndQtr02	3rdQtr02	4thQtr02
G13D	Benzene	ug/l	G2	2.8		< 1				< 1				< 1		
G33D	pH (field)	units	G1	5.4 - 8.1	6.91	8.4	7.75	7.91	7.37	7.77	7.01	7.36	6.7	7.25	7.35	7.3
G33S	pH (field)	units	G1	5.4 - 8.1						7.78	7.82	7.29	6.61	7.43	7.45	7.33

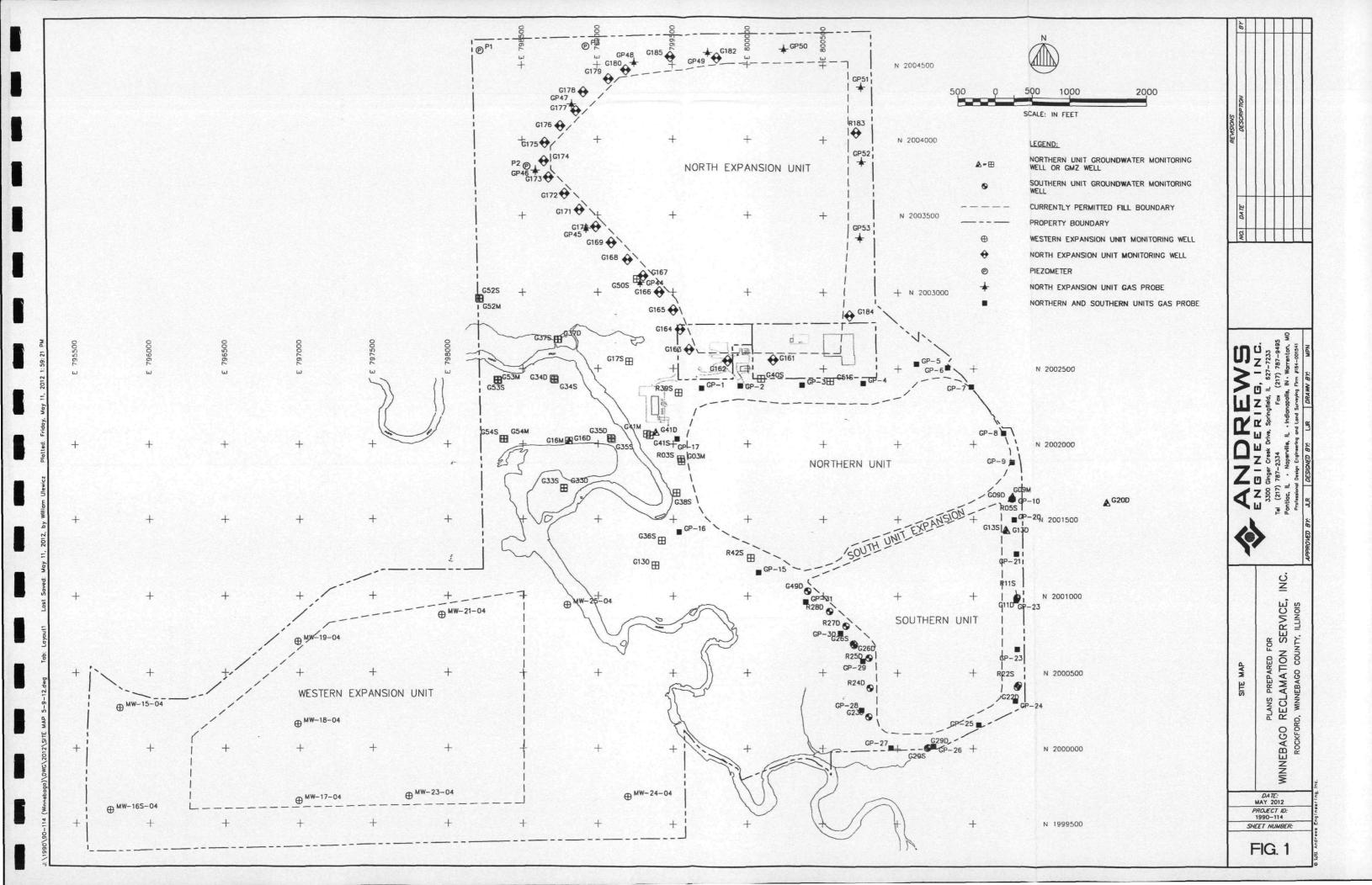
Well ID	Parameter	Units	GW List	AGQS	1stQtr03	2ndQtr03	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04	2ndQtr04re	3rdQtr04	4thQtr04	1stQtr05	2ndQtr05	3rdQtr05
G13D	Benzene	ug/l	G2	2.8		< 1	< 1	< 1	< 1	< 1		< 1			< 1	
G33D	pH (field)	units	G1	5.4 - 8.1	7.16	7.14	7.53	7.44	7.4	7.29	6.42	6.86	7.03	7.65	7.1	7.75
G33S	pH (field)	units	G1	5.4 - 8.1	7.11	7.18	7.61	7.5	7.62	7.3		7	6.11	7.81	7.22	7.9

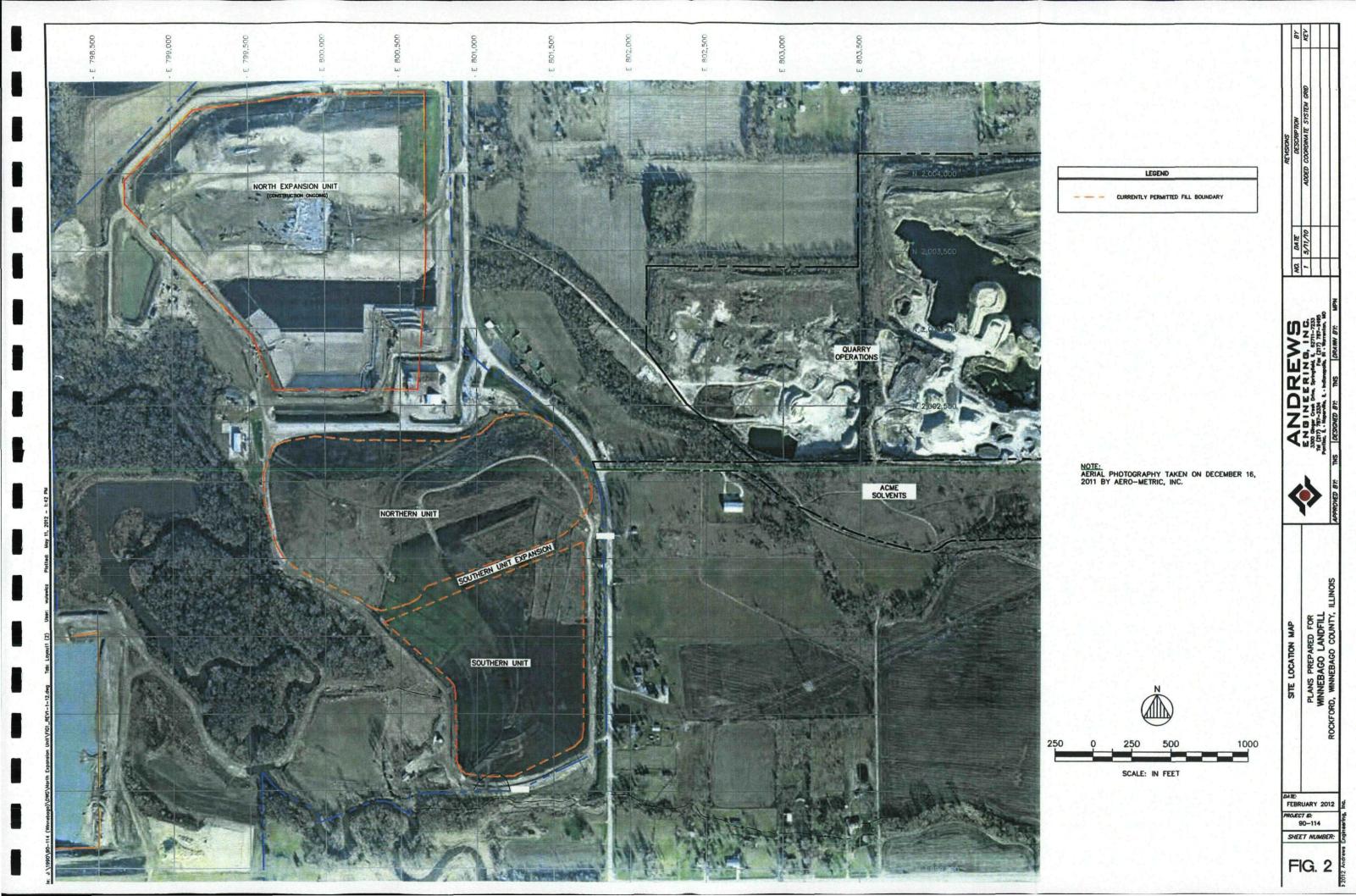
Well ID	Parameter	Units	GW List	AGQS	4thQtr05	1stQtr06	2ndQtr06	3rdQtr06	4thQtr06	1stQtr07	2ndQtr07	3rdQtr07	4thQtr07	1stQtr08	1stQtr08re	2ndQtr08
G13D	Benzene	ug/l	G2	2.8			< 1				< 1					< 1
G33D	pH (field)	units	G1	5.4 - 8.1	7.28	7.37	7.2	7.51	8.05	8.08	8.27	8.38	7.34	6.97		6.77
G33S	pH (field)	units	G1	5.4 - 8.1	7.2	7.39	7.22	7.25	7.73	7.6	7.73	8.39	7.27	6.88		6.75

Well ID	Parameter	Units	GW List	AGQS	3rdQtr08	4thQtr08	1stQtr09	2ndQtr09	3rdQtr09	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10	4thQtr10	1stQtr11	2ndQtr11
G13D	Benzene	ug/l	G2	2.8	PARTIE	< 1		< 1	er a starter	< 1		< 1		< 1		1.7
G33D	pH (field)	units	G1	5.4 - 8.1	7.56	7.81	7.97	8.18	7.58	7.52	7.12	7.61	7.76		7.14	7.78
G33S	pH (field)	units	G1	5.4 - 8.1	7.94	8.11	7.85	8.08	7.8	7.41	7.26	7.66	7.84		7.2	7.96

Well ID	Parameter	Units	GW List	AGQS	3rdQtr11	4thQtr11	1stQtr12	2ndQtr12
G13D	Benzene	ug/l	G2	2.8	24	3.7	2.7	2.2
G33D	pH (field)	units	G1	5.4 - 8.1	7.09	8.48	8.16	6.94
G33S	pH (field)	units	G1	5.4 - 8.1	7.4	8.16	9	7.01

FIGURES





APPENDIX A
APPLICATION FORMS



Illinois Environmental Protection Agency

Bureau of Land 1021 North Grand Avenue East Box 19276 Springfield, IL 62794-9276

Certification of Authenticity of Official Forms

This form must accompany any application submitted to the Illinois EPA Bureau of Land, Division of Land Pollution Control, Permit Section on forms other than the official copy printed and provided by the Illinois EPA. The only allowed changes to the form are in spacing, fonts, and the addition of the information provided. Any additions must be underlined. The forms would not be considered identical if there is any change to, addition or deletion of words on the form or to the language of the form.

The same individuals that sign the application form it accompanies must sign the following certification.

I hereby certify under penalty of law that I have personally examined, and am familiar with the application form or forms and all included supplemental information submitted to the Illinois EPA herewith, and that the official Illinois Environmental Protection Agency application form or forms used herein is or are identical in all respects to the official form or forms provided by the Illinois EPA Bureau of Land Permit Section, and has not or have not been altered, amended, or otherwise modified in any way. I further certify under penalty of law that any attached or included electronic data version of the application form or forms complies with the official Illinois EPA's Electronic version thereof, and is or are identical in all respects to the official electronically downloadable form or forms provided by the Illinois EPA Bureau of Land Permit Section, and has not or have not been altered, amended or attached in any way.

otherwise modified in any way.	
By:	4-12-2012
Owner Signature	(date)
Engineering Manager	
Title	
Ву:	4-12-2012 (date)
Operator Signature	(date)
Engineering Manast	
Engineer Signature (if necessary)	5/10/12 (date)
Subscribed and Sworn to Before Me, a Notary Public in and for the above-mentioned County and State.	······
Rotary Public	OFFICIAL SEAL NICOLE M ROTE NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES 08/12/12
My Commission Expires: 8-12-12	[Notary Seal]



Site Identification:

Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • Box 19276 • Springfield • Illinois • 62794-9276

General Application for Permit (LPC - PA1)

This form must be used for any application for permit, except for landscape waste composting or hazardous waste management facilities regulated in accordance with RCRA, Subtitle C from the Bureau of Land. One original, and two copies, or three if applicable, of all permit application forms must be submitted. Attach the original and appropriate number of copies of any necessary plans, specifications, reports, etc. to fully support and describe the activities and modifications being proposed. Attach sufficient information to demonstrate the compliance with all regulatory requirements. Incomplete applications will be rejected.

Niote: Permit applications which are hand-deliverd to the Bureau of Land, Permit Section must be delivered to the above address between 8:30 am and 5:00 pm, Monday through Friday (excluding State holidays).

NOTE: Please complete this form online, save a copy locally, print and submit it to the Permit Section #33, at the above address.

ii Oito idoiit	mouno						
Site Name: Wir	nnebago Landfill					IEPA ID Number: 2018080001	
Street Address:	8403 Lindenwood Road					P.O. Box:	
City: Rockford	Sta	te: <u>IL</u>	Zip Code: 6	1109		County: Winnebago	
Existing DE/OP	Permit Numbers (if applicable)	: <u>199</u> 1	1-138-LF				
2. Owner/O	perator Identification:						
	Owner:					Operator	
Name:	Winnebago Landfill Company	, LLC		Name:		Winnebago Reclamation Service, Inc.	
Street Address:	5450 Wansford Way, Suite 20	1B		Street Addr	ess:	5450 Wansford Way, Suite 201B	
PO Box:			•	PO Box:			
City:	Rockford S	tate:	<u>IL</u>	City:		Rockford State: IL	
Zip Code:	61109 Phone: _			Zip Code:		61109 Phone:	
Contact:	Tom Hilbert			Contact:		Tom Hilbert	
Email Address:	thilbert@rresvcs.com			Email Addre	ess:	thilbert@rresvcs.com	
TYPE OF SUB	MISSION/REVIEW PERIOD:		TYPE OF F	ACILITY:		TYPE OF WASTE:	
New Landfill/180	0 days (35 IAC Part 813)		Landfill		\checkmark	General Municipal Refuse	V
Landfill Expans	ion/180 days (35 IAC Part 813)		Land Treati	ment		Hazardous	
Sig. Mod. to Op	perate/90 days (35 IAC Part 813)		Transfer St	ation		Special (Non-Hazardous)	\checkmark
Other Sig. Mod.	./90 days (35 IAC Part 813)	V	Treatment I	Facility		Chemical Only (exec. putrescible)	
Renewal of Lan	ndfill/90 days (35 IAC Part 813)		Storage			Inert Only (exec. chem. & putrescible)	
Developmental/	/90 days (35 IAC Part 807)		Incinerator			Used Oil	
Operating/45 day	/s (35 IAC Part 807)		Composting)		Potentially Infectious Medical Waste	
Supplemental/9	0 days (35 IAC Part 807)		Recycling/F	Reclamation		Landscape/Yard Waste	
Permit Transfer	790 days (35 IAC Part 807)		Other (Spec	cify)		Other (Specify)	
Renewal of Exp	perimental Permit (35 IAC Part 807) 🗆					
•	on of this Permit Reques		11 confirmed	d exceedence	es.		

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

City: Rockford

4. Completen	ess Requirements						ruge 2 or r
	s must be checked Yes, I rejection of the application						ı clerk. Blank
. Have all require	ed public notice letters be	en mailed in a	ccordance	with th	e LPC-PA16 instruction	s? 🗌 Ye	s 🗌 No 🗌 N/A
	list of those recipients of s EPA review and/or conf ecipients			e letter	rs for Illinois EPA retenti	on. Such r	etention shall not
Name: Dave Sy	/verson			Title:	Senator - District 34		
	200 South Wyman Stree					P.O. Box:	
City: Rockford		State: IL	_ Zip Code:	6110	1 Phone:		
Name: <u>C</u> harles				Title:	Representative - Distric	ot 67	
	200 South Wyman Stree					P.O. Box:	
City: Rockford		State: <u>IL</u>	_ Zip Code: 	6110	1 Phone:		
Name: Joseph				Title:	State's Attorney		
	400 West State Street						
City: Rockford		State: IL	_ Zip Code: 	6110	1 Phone:		
Name: Scott Cl	nristiansen			Title:	County Chairman		
Street Address:	404 Elm Street, Room 5				···	P.O. Box:	
City: Rockford		State: <u>IL</u>	_ Zip Code: 	6110	1 Phone:		
Name: <u>V</u> illage o				Title:	Village Clerk		
	6771 11th Street		-		·	P.O. Box:	
City: Rockford		State: <u>IL</u>	_ Zip Code: 	6110	9 Phone:		
_	of Davis Junction			Title:	Village Clerk		
	106 North Elm Street	_				P.O. Box:	
City: Davis June	ction	State: IL	_ Zip Code: 	6102	0 Phone:	· · · · · · · · · · · · · · · · · · ·	·
	Valley Township			Title:			
	4875 Blackhawk Road					P.O. Box:	
City: Rockford		State: <u>IL</u>	_ Zip Code:	6110	9 Phone:		
Name:			72.72.	Title:	City of Rockford Clerk		
Street Address:	425 East State St					P.O. Box:	

State: <u>IL</u> Zip Code: 61104 Phone:

2	. 6	a.	Is the Siting Certification Form (LPC-PA8) completed and enclosed?	Yes	Map	44% لياa
	ı	b.	Is siting approval currently under litigation?	☐ Yes	✓ No	□ N/A
3	. 6	a.	Is a closure, and if necessary a post-closure plan covering these activities being submitted, or	☐ Yes	✓ No	□ N/A
	i	b.	has one already been approved? If yes, provide the permit number: 1991-138-IF		· · · ·	
4	. (a.	For waste disposal sites, only: Has any employee, owner, operator, officer or director of the owner or operator had a prior conduct certification denied, canceled or revoked?	Yes	✓ No	□ N/A
	(b.	Have you included a demonstration of how you comply or intend to comply with 35 III. Adm. Code 745?	☐ Yes	✓ No	□ N/A
5		a.	Is land ownership held in beneficial trust?	☐ Yes	✓ No	□ N/A
	ı	b.	If yes, is a beneficial trust certification form (LPC-PA9) completed and enclosed?	☐ Yes	☐ No	✓ N/A
6	. (a.	Does the application contain information or proposals regarding the hydrogeology; groundwater monitoring, modeling or classification; a groundwater impact assessment; or vadose zone monitoring for which you are requesting approval?	✓ Yes	No	□ N/A
	ı	b.	If yes, have you submitted a third copy of the application (4 total) and supporting documents?	✓ Yes	☐ No	□ N/A

+ + **, * + + ;

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5. Signatures:

Original signatures are required. Signature stamps or applications transmitted electronically or by FAX are not acceptable.

All applications shall be signed by the person designated below as a duly authorized representative of the owner an/or operator.

Corporation - By a principal executive officer of the level of vice-president or above.

Partnership or Sole Proprietorship - By a general partner or the proprietor, respectively.

Government - By either a principal executive officer or a ranking elected official.

A person is a duly authorized representative of the owner and operator only if:

July W. Math

- 1. They meet the criteria above or the authorization has been granted in writing by a person described above; and
- 2. Is submitted with this application (a copy of a previously submitted authorization can be used).

I hereby affirm that all information contained in this application is true and accurate to the best of my knowledge and belief. I do herein swear that I am a duly authorized representative of the owner/operator and I am authorized to sign this permit application form.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44/h))

Owner Signature: Thomas Hilbert Printed Name: 4-12-2012 Date: Fryince Name: Title:	
	······································
Printed Name: Notary: Subscribed and Sworn before me this	M ROTE STATE OF ILLIN
My commission expires on: 8-12-12 Signature & Stamp/Seal of Notar	
4-12-2012	
Operator Signature: Themas Hilbert Ensineelin Management	- MANAGEAN
My commission expires on: 8-12-12 Signature & Stamp/Seal of Notary	
Engineer's Name: Douglas W. Maunte Engineer's Title: Project Engineering	
Company: Andrews Engineering, Inc. Registration Number: 062 - 054530	
Street Address: 3300 Ginger Creek Drive PO Box:	
City: Springfield State: IL Zip Code: 62711 Phone 2174787	7-2334
Email Address: Chingunte & Cachewy-eng.com License Expiration Date: 082-054530 REGISTERED PROFESSIONAL ENGINEER	

APPENDIX B

Potentiometric Surface Maps

